

Fort McMurray – Athabasca, Clearwater and Hangingstone Rivers – Flood Hazard Study – Summary

Community	Urban Service Area of Fort McMurray Regional Municipality of Wood Buffalo
Stream	Athabasca River Clearwater River Hangingstone River
Basin	Athabasca River – 7C

This study establishes flood hazard areas and determines flood levels along an almost 3 km reach of the Athabasca River and an approximate 9 km reach of the Clearwater River through Fort McMurray. The study area also includes an almost 3 km reach of the Hangingstone River, most of which is located downstream of Highway 63 and within the Clearwater River valley.

The Athabasca River has its source in the Rocky Mountains. Flooding in the study area generally occurs as a result of an ice jam forming on the Athabasca River at the Clearwater River confluence. Flooding along the study streams occurs as water levels rise upstream of the ice jam. The study uses analysis of historic ice jam data to determine a 100-year ice jam water level of 250.0 m. High water levels in the study area are most likely to occur during the typical river ice breakup period between April and mid-May.

A digital representation of the flood hazard maps prepared as part of this study can be viewed online.

- [Fort McMurray Flood Hazard Mapping](#)

For more information regarding specific flood hazards in your community, please contact Alberta Environment and Parks by email at ESRD.Flood@gov.ab.ca.

Flood Hazard Study Details

Study Status	Final
Report Name	Review of Flood Stage Frequency Estimates for the City of Fort McMurray
Report Author	Alberta Environmental Protection, Water Resources Service, Technical Services & Monitoring Division, Edmonton, Alberta
Report Date	November 1993
Revision Date	December 2003

The original study was prepared in November 1993. Flood hazard mapping was updated in December 2003. The original report and updated mapping constitute the revised study. Changes made to the flood hazard mapping are not reflected in the text of the current report.

Flood information available after study completion may not be reflected in the current flood hazard study report or flood hazard mapping.

To obtain a PDF copy of the current report or mapping in PDF format, please contact Alberta Environment and Parks by email at ESRD.Flood@gov.ab.ca.

Instructions on how to obtain official GIS flood hazard mapping data, or more information on the Flood Hazard Identification Program and flood hazard studies in Alberta, are available online.

- floodhazard.alberta.ca

Provincial Designation Details

Designation Status	Pending
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Related Information

Adjacent Studies	None
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